SOS Explorer 1.1

Setup Guide

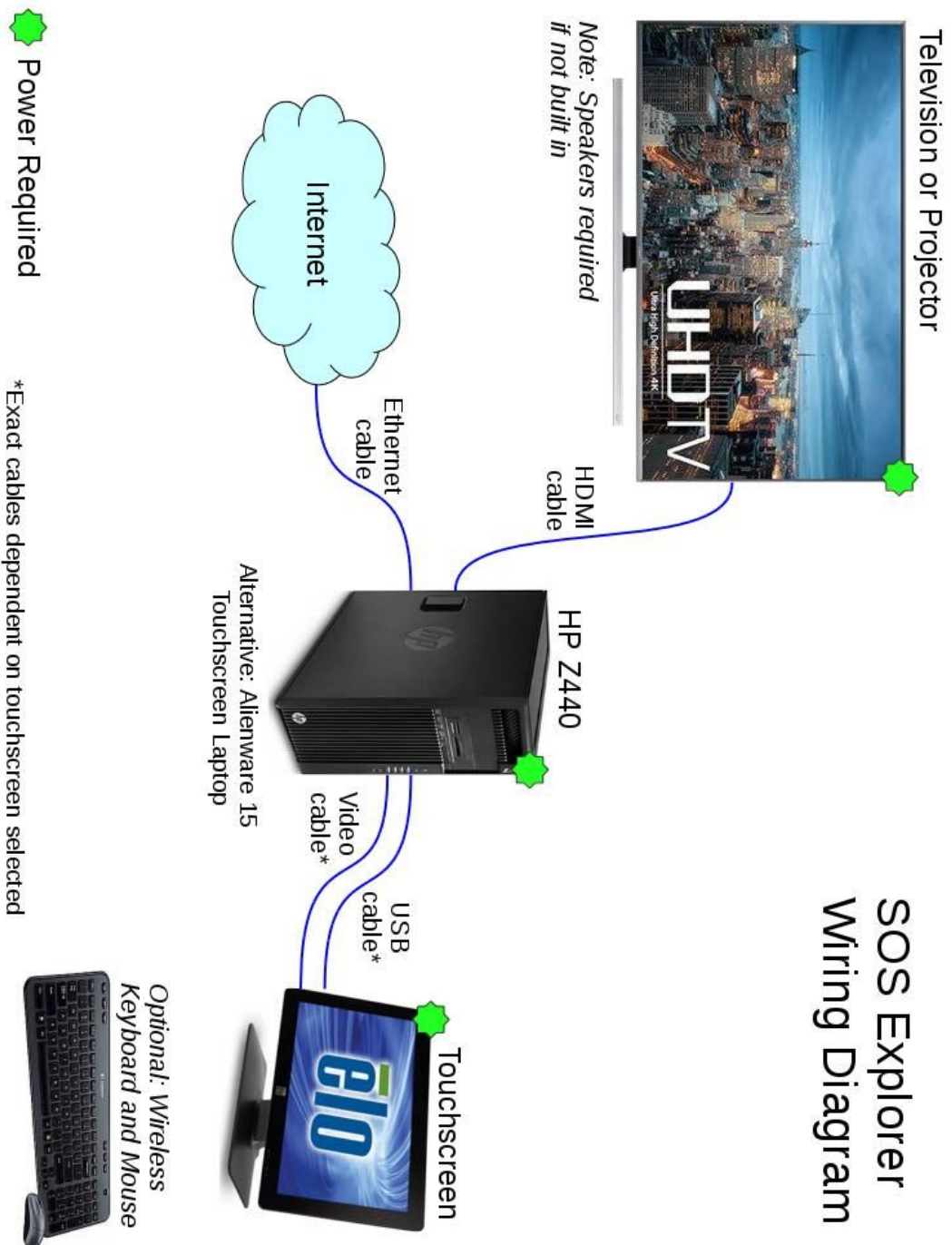## Fall 2016

Part 1) Wiring Diagram

SOS Explorer
Wiring Diagram

Television or Projector

Note: Speakers required
if not built in

Internet

Ethernet
cable

HDMI
cable

Power Required

*Exact cables dependent on touchscreen selected

HP Z440

Alternative: Alienware 15
Touchscreen Laptop

Video
cable*

USB
cable*

Touchscreen

Optional: Wireless
Keyboard and Mouse

Part 2) Screen resolution settings and multiple monitors

Before running SOS Explorer, the computer should be configured with the proper display configuration. The application expects two monitors to be attached. The main or primary screen should be the touch screen and the secondary screen should be the larger TV. To access the display settings right click on the desktop and choose "Display settings" as shown in the image below.
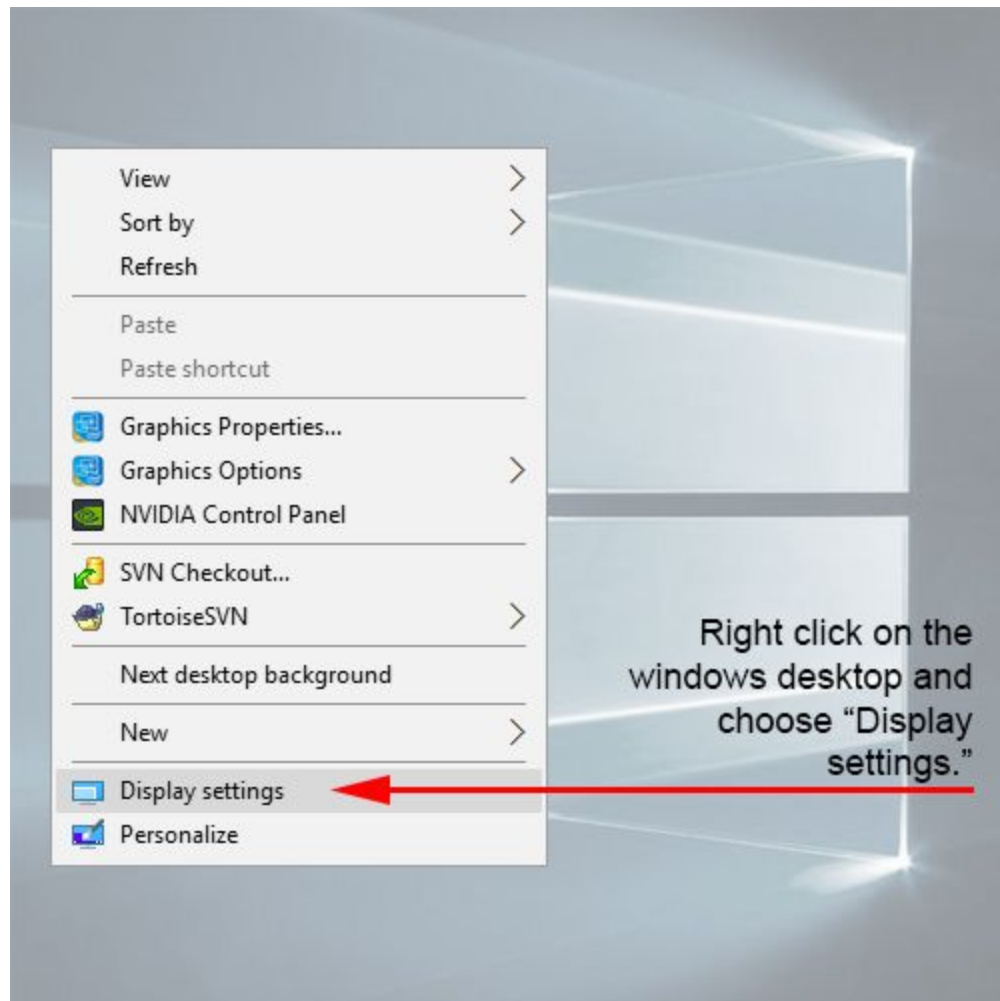
This will open the following dialog window where you should try to match the settings shown below. Specifically two monitors should be displayed with the main (primary) touchscreen appears below the larger secondary TV. Further all displays should be set to 100% sizing and the extended desktop mode enabled. If using a laptop the laptop monitor should be deactivated. If using a set of virtual reality glasses they will not appear in this dialog.

Customize your display

Find a setting 🔎

System

🖥 Display

☰ Apps & features

🔂 Default apps

🔲 Notifications & actions

⏻ Power & sleep

🔋 Battery

▭ Storage

🗺 Offline maps

🔳 Tablet mode

🔳 Multitasking

🔳 Projecting to this PC

🔳 Apps for websites

ⓘ About

If using both a TV and touchscreen make sure the display on the laptop is deactivated. The is done through the "Multiple displays" dropdown below.

2

Display 2 should be the secondary display and should be the TV.

1

Display 1 should be the main (primary) display and be the touchscreen.

Pressing the "Identify" link may assist in determining monitor assignments.

Identify   Detect   Connect to a wireless display

All displays should be set to 100% sizing. Logging out and back into the computer may be necessary.

Change the size of text, apps, and other items: 100%

Orientation

Landscape

Adjust brightness level

Make sure to select "Extend these displays" and configure them as seen in the image above. If using both a TV and a touchscreen deactivate the computer monitor.

Multiple displays

Extend these displays

☑ Make this my main display

Once all the changes have been made make sure to hit the "Apply" button.

Apply   Cancel

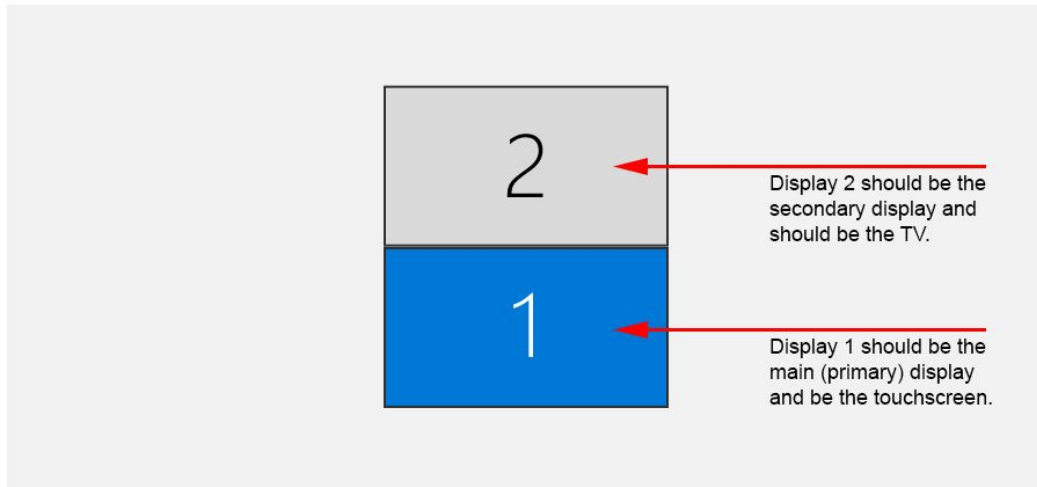Change the display resolutions to 1920x1080 (1080P) under "Advanced display settings."

Advanced display settings

Access "Advanced display settings" found at the bottom of the dialog window check to make sure that all the attached displays are running at 1920x1080 or 1080P.

⚙ Advanced display settings

Customize your display

Identify   Detect   Connect to a wireless display

Multiple displays

Extend these displays   ←

Make sure to select "Extend these displays" and configure them as seen in the image above. If using both a TV and a touchscreen deactivate the laptop monitor.

Resolution

1920 × 1080   ←

The resolution for all attached monitors should be 1920x1080 otherwise known as 1080P.

Apply   Cancel   Once all the changes have been made make sure to hit the "Apply" button.

Finally, it may be necessary to change the refresh rate on the TV. To do this right click on the desktop and select "NVIDIA Control Panel" as shown below.
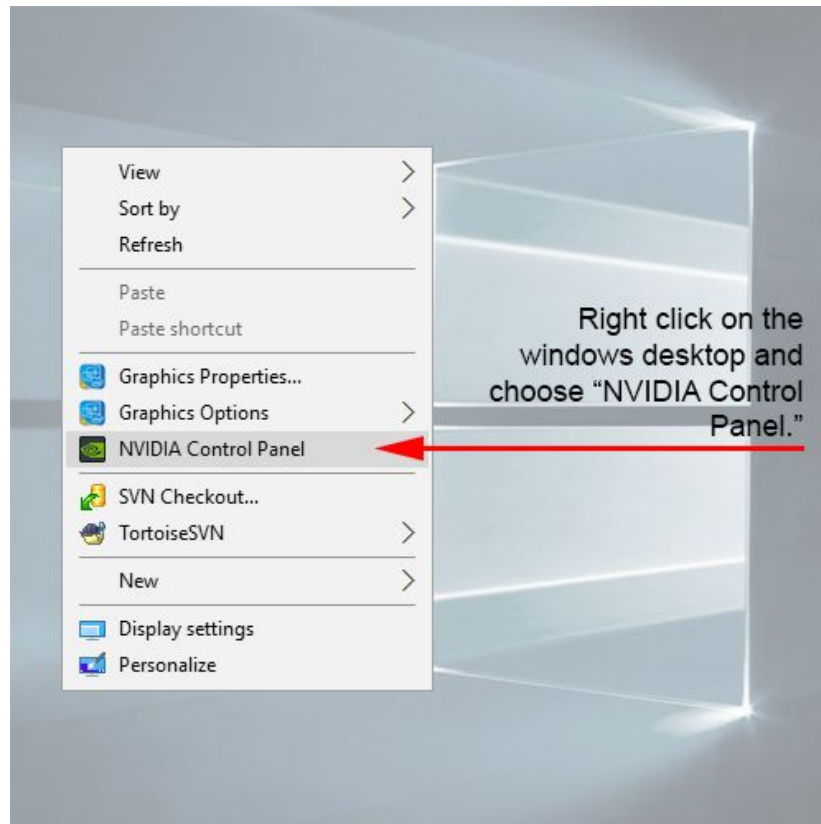
Select "Change resolution" from the left panel in the dialog window and then verify that the refresh rate is set at 60Hz for all the available displays. See the image below for more instructions.
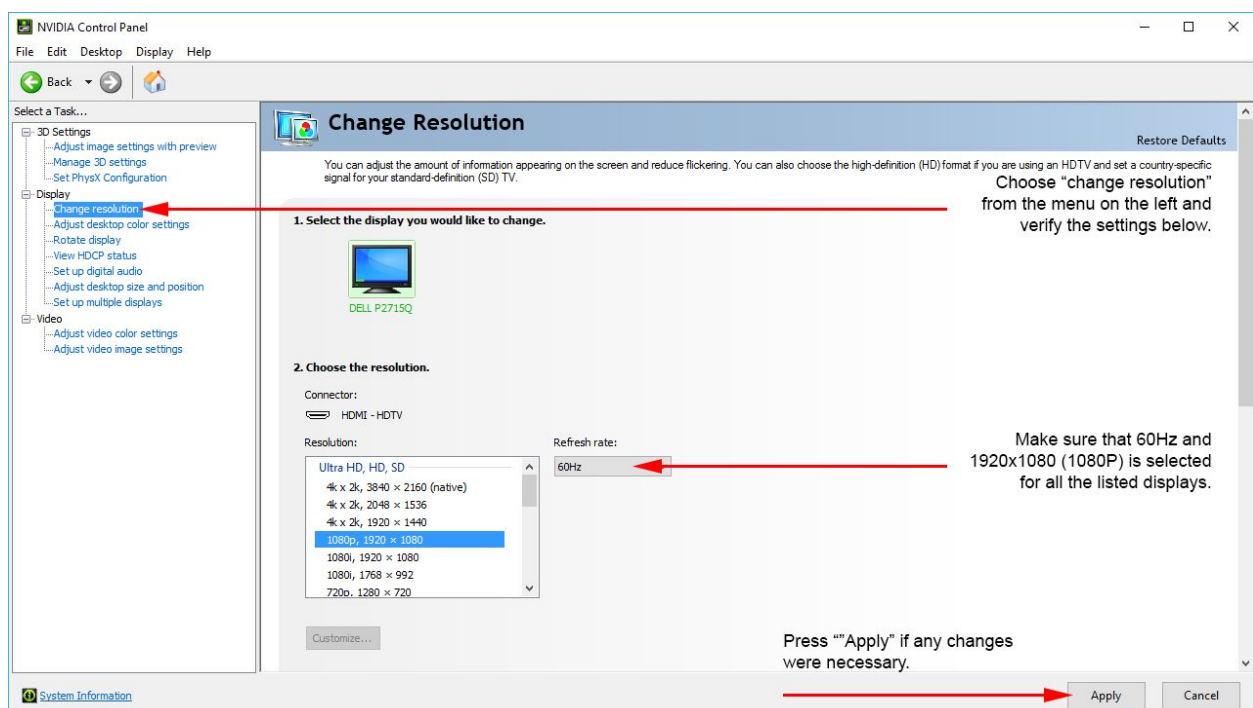
Part 3) Starting and stopping SOS Explorer and what to do in case of a crash

SOS Explorer is intentionally designed to be difficult to quit. This is because it is designed to operate in an unattended exhibit environment where you would not what visitors gaining access to the desktop or operating system. Because of this you should leave the keyboard and mouse hidden during normal operation. If you need access the Desktop or Windows environment you should retrieve the keyboard and mouse and do the following.
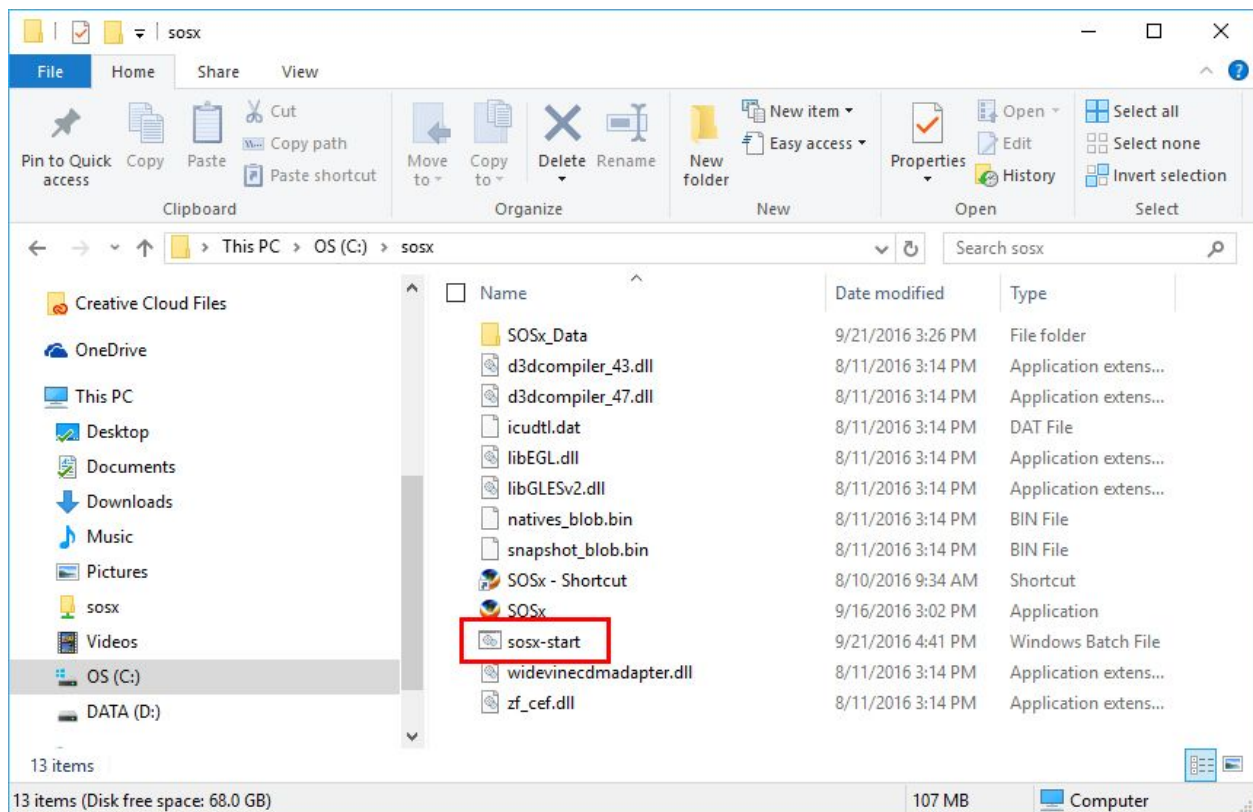
1. Alt-F4 will quit the SOS Explorer application and present you with a blank display.
2. Ctrl-Alt-Del and choose the Task Manager
3. Select File -> Run New Task and type in "explorer."
4. Press OK to return to a normal Windows environment.
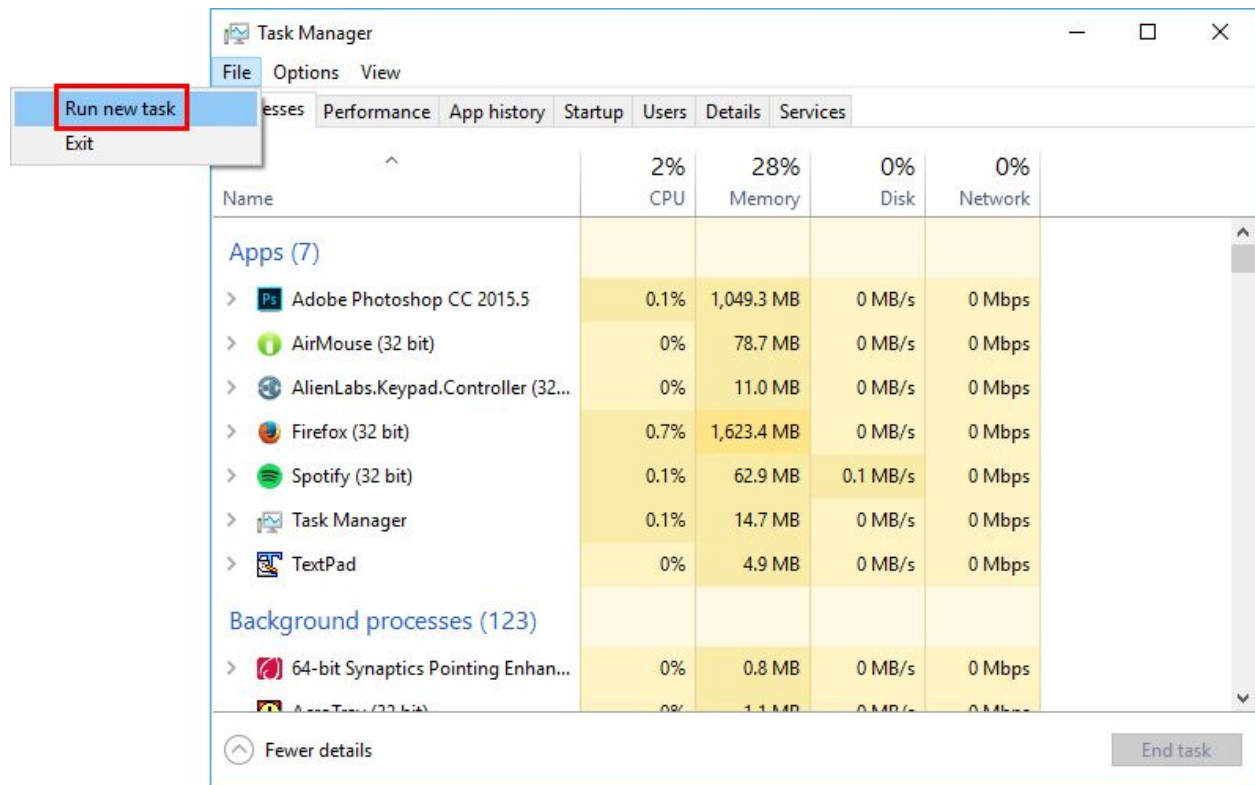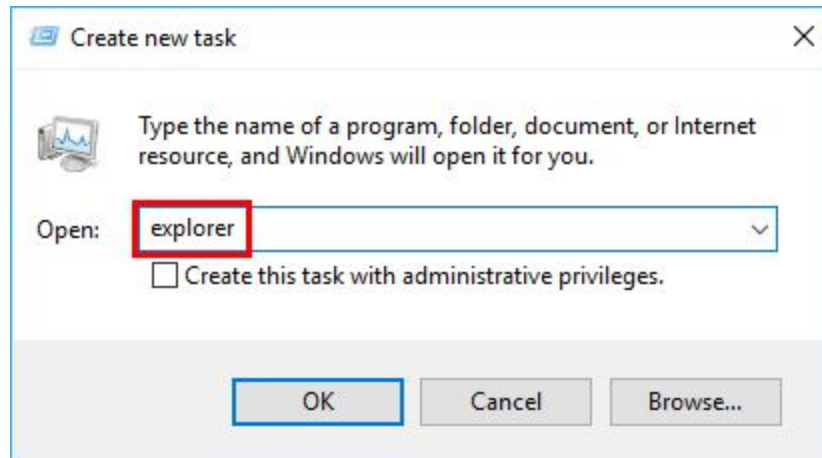
To restart the application do the following:

1. Open up a windows explorer window and go to C:\sosx
2. Double click on sosx-start.bat

If the application crashes the same shutdown and startup procedures should apply. If this still doesn't work try restarting the computer. If there is still a problem contact support.

Part 4) Selecting Datasets to be Shown in SOSx

There are over 115 datasets loaded onto your exhibit, including real-time datasets that will automatically update every hour. However, if you would prefer to restrict to a particular theme, for example, if your museum is an aquarium and you want only *Water and People* datasets to appear in the *SOSx Search Window*, then it's possible to use our website to select the datasets that you want. **Please Note:** If you are an SOS user and you wish to make an SOS Playlist, please refer to the Tour section of this documentation.

1. Go to sos.noaa.gov and select the *Datasets* tab.
2. Under *Refine by*, check the *SOSx* box. The list of datasets on the left will reflect this.

3. Click to open a dataset to read the description.
4. While on the selected dataset page, in the upper left side of the screen, you'll see the *Builder.*
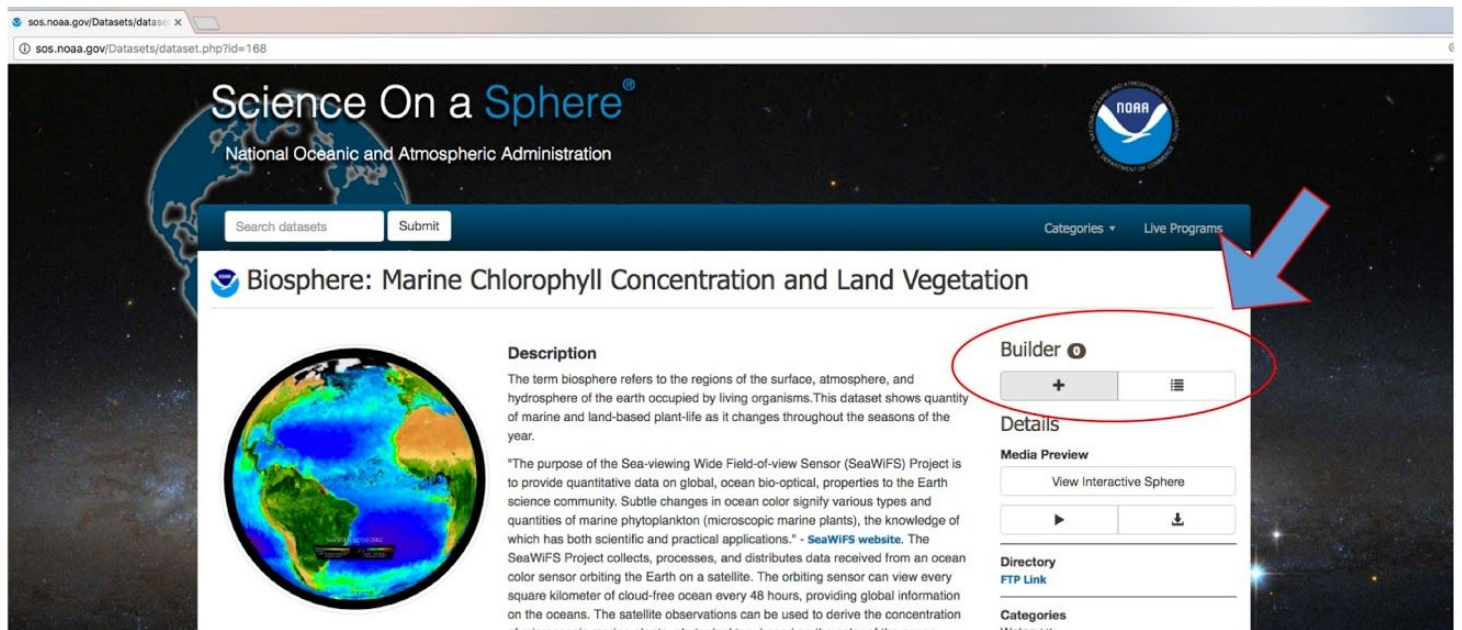
5. Choose your datasets, one at a time, by clicking the **+** They will appear in the list. To view your list, click the *button on the right* of the **+ sign.** They will appear alphabetically in *SOSx Search Screen,* therefore there is **no need to reorder them.**

6. Once you have selected all of the datasets that you want to appear in your SOSx exhibit, select *SOSx* from the toggle at the top of your list. Datasets that appear red are not available in SOSx. *Download*. The list will automatically be named dataset_selection.json.
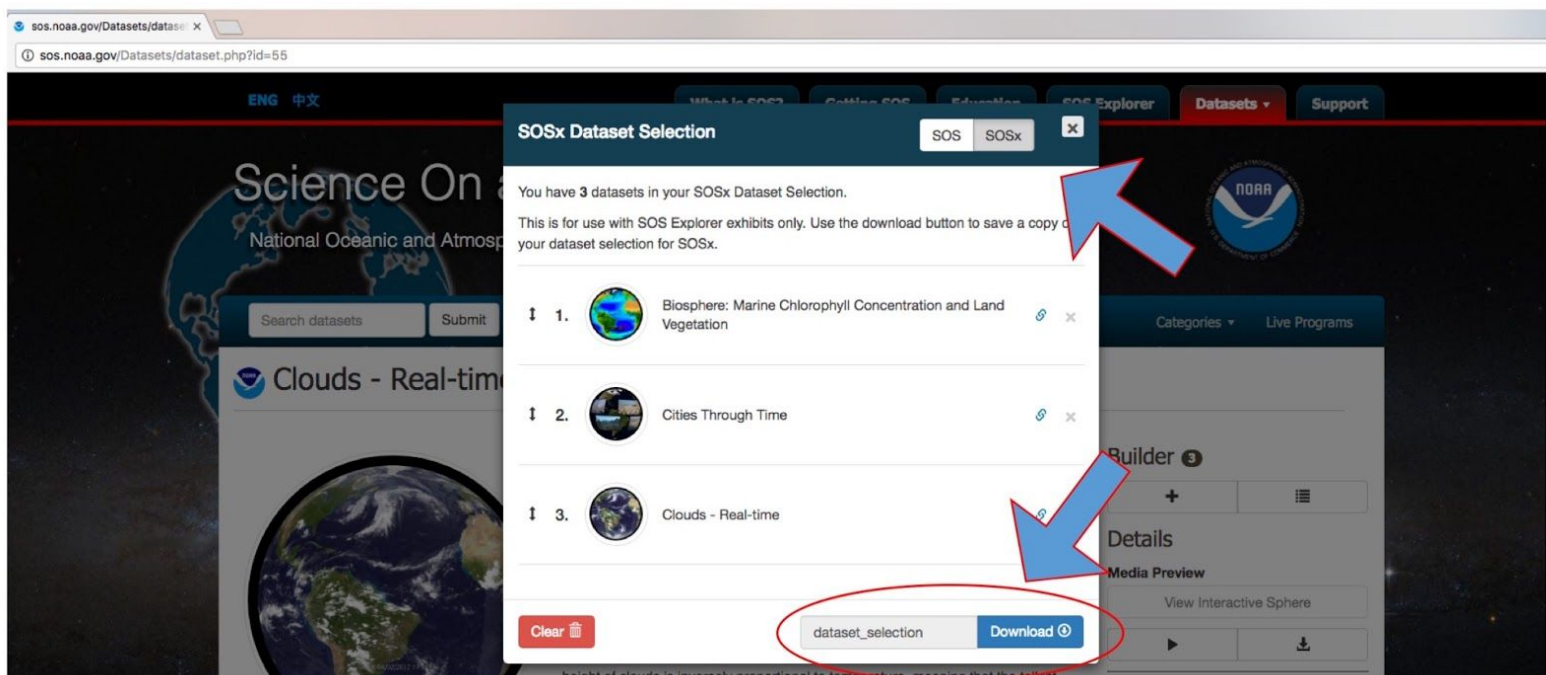
7. Place this file in your ***local-datasets*** directory on your *SOSx* computer.